2022-2023

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency: Sri. K. Lakshmi Narayana Reddy, Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

CIVIL SHINE ENGINEERING CONSULTANTS

(An ISO 9001: Certified Company)

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

QC ABSTRACT

Nameof Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15), BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	2.37 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	23.65 Cum	3	3	Concrete Cube Compressive Strength	-
3	M25	6.05 Cum	2	2	Concrete Cube Compressive Strength	-
4	M25	35.57 Cum	4	4	Concrete Cube Compressive Strength	-
5	Steel	12.04 Tonne	1	1	-	-
6	Glazed Tiles	190.05 Sqm	1	1	-	-
7	Ceramic tiles	47.25 Sqm	1	1	-	-
8	MS Hollow Pipe	12.00 Sqm	1	1	-	-
9	CC Blocks 400x200x200mm	354.67 Sqm	1	1	Concrete Blocks Compressive Strength	-
10	CC Blocks 400x100x200mm	36.00 Sqm	1	1	Concrete Blocks Compressive Strength	-

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

CIVIL SHINE ENGINEERING CONSULTANTS Bangalore

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31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 22.04.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15), BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE		March - 2022
DATE OF TESTING		20.04.2022 to 22.04.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

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Job No.: CSEC/BBMP/KLNR/QC/2022-23

Date : 22.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 22.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	124	12.40	21.30	78.7	75-100
1.18	185	18.50	39.80	60.2	55-90
600 Micron	156	15.60	55.40	44.6	35-59
300 Micron	251	25.10	80.50	19.5	8-30
150 Micron	138	13.80	94.30	5.7	0-10

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date : 22.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 22.04.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	12	1.20	1.20	98.8	90-100
1.18	38	3.80	5.00	95.0	70-100
600 Micron	86	8.60	13.60	86.4	40-100
300 Micron	244	24.40	38.00	62.0	5-70
150 Micron	486	48.60	86.60	13.4	0-15

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Job No.: CSEC/BBMP/KLNR/QC/2022-23

Date : 22.04.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 22.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date : 22.04.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 22.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8236	54.91	56.13	43.87	30-70
10	3265	21.77	77.90	22.10	10-35
4.75	2815	18.77	96.67	3.33	0-5

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Job No.: CSEC/BBMP/KLNR/QC/2022-23

Date : 29.04.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 29.04.2022

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	15.9	165.8	4.15	1987.50	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	16.5	170.9	4.27	2062.50	
3	Block 3	16.9	173.6	4.34	2112.50	
4	Block 4	17.2	171.5	4.29	2150.00	

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date : 29.04.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 29.04.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.2	424.6	5.31	2012.50	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	33.9	430.9	5.39	2118.75	
3	Block 3	34.5	428.6	5.36	2156.25	
4	Block 4	32.8	426.5	5.33	2050.00	

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.168	505.2	22.45
2	05.05.2022	02.06.2022	8.174	516.3	22.95
3	05.05.2022	02.06.2022	8.152	488.9	21.73

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.189	502.2	22.32
2	05.05.2022	02.06.2022	8.168	513.6	22.83
3	05.05.2022	02.06.2022	8.146	489.3	21.75

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.169	505.2	22.45
2	05.05.2022	02.06.2022	8.154	513.2	22.81
3	05.05.2022	02.06.2022	8.146	484.9	21.55

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 14.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	14.05.2022	8.168	385.6	17.14
2	07.05.2022	14.05.2022	8.146	399.3	17.75
3	07.05.2022	14.05.2022	8.152	401.5	17.84

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 04.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	04.06.2022	8.184	602.2	26.76
2	07.05.2022	04.06.2022	8.165	626.3	27.84
3	07.05.2022	04.06.2022	8.146	615.8	27.37

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AE-02

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 14.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	14.05.2022	8.184	388.9	17.28
2	07.05.2022	14.05.2022	8.156	405.2	18.01
3	07.05.2022	14.05.2022	8.138	409.2	18.19

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

A.E.E

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 04.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	04.06.2022	8.184	609.3	27.08
2	07.05.2022	04.06.2022	8.165	612.2	27.21
3	07.05.2022	04.06.2022	8.146	629.4	27.97

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 16.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	16.05.2022	8.184	389.3	17.30
2	09.05.2022	16.05.2022	8.165	392.6	17.45
3	09.05.2022	16.05.2022	8.146	405.2	18.01

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.168	606.3	26.95
2	09.05.2022	06.06.2022	8.177	612.2	27.21
3	09.05.2022	06.06.2022	8.192	629.6	27.98

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 18.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	18.05.2022	8.184	382.9	17.02
2	11.05.2022	18.05.2022	8.156	396.3	17.61
3	11.05.2022	18.05.2022	8.138	405.2	18.01

Note:

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AE-02

For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 08.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	08.06.2022	8.188	622.3	27.66
2	11.05.2022	08.06.2022	8.156	606.2	26.94
3	11.05.2022	08.06.2022	8.164	619.4	27.53

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	18.05.2022	8.184	416.3	18.50
2	11.05.2022	18.05.2022	8.156	392.6	17.45
3	11.05.2022	18.05.2022	8.138	408.2	18.14

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Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	08.06.2022	8.178	623.3	27.70
2	11.05.2022	08.06.2022	8.165	606.2	26.94
3	11.05.2022	08.06.2022	8.149	616.4	27.40

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

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Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	18.05.2022	8.184	405.2	18.01
2	11.05.2022	18.05.2022	8.156	413.2	18.36
3	11.05.2022	18.05.2022	8.138	398.6	17.72

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 08.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2022	08.06.2022	8.184	606.3	26.95
2	11.05.2022	08.06.2022	8.156	615.2	27.34
3	11.05.2022	08.06.2022	8.138	624.9	27.77

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Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 16.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	16.05.2022	8.154	268.9	11.95
2	09.05.2022	16.05.2022	8.138	285.2	12.68
3	09.05.2022	16.05.2022	8.146	276.3	12.28

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.184	385.6	17.14
2	09.05.2022	06.06.2022	8.156	376.9	16.75
3	09.05.2022	06.06.2022	8.138	368.2	16.36

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23 23.05.2022

TEST REPORT ON STAINLESS STEEL HOLLOW PIPE (14th Gauge)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15), BBMP, Bangalore.

Specimen Size : MS Hollow pipe 50x50mm

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	1.30 mm
2	Inner Diameter	50.15 mm
3	Outer Diameter	52.65 mm
4	Weight / Meter	2.542 Kg

Note:

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3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Authorised Signatory

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23 Date: 25.05.2022

TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

*Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 20.05.2022 to 25.05.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	46.9	47.28	Average 47, indivisual minimum 44 N/mm^2
2	47.2		
3	46.9		
4	47.5		
5	47.9		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

For CIVIL-SHINE ENGINEERING CONSULTANTS

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III. STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

Note:

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2022-23

Date: 25.05.2022

TEST REPORT ON GLAZED TILES

*Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

*Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Glazed Tiles
IS 15622 - 2006 - Specification of Glazed Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 20.05.2022 to 25.05.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	47.2	47.42	Average 47, indivisual minimum 44 N/mm^2
2	48.5		
3	47.3		
4	46.9		
5	47.2		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

AE-02

A.E.E

For CIVIL-SHINE ENGINEERING CONSULTANTS

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